

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/577, 742  
Source: IFWO  
Date Processed by STIC: 08/31/2006

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 08/31/2006

PATENT APPLICATION: US/10/577,742

TIME: 08:27:58

Input Set : F:\S&amp;B-0008.ST25.txt

Output Set: N:\CRF4\08312006\J577742.raw

3 <110> APPLICANT: Finlay, Brett  
 4 Gruenheid, Samantha  
 5 Deng, Wanyin  
 6 Vallance, Bruce  
 7 Puente, Jose L.  
 9 <120> TITLE OF INVENTION: BACTERIAL VIRULENCE FACTORS AND USES THEREOF  
 11 <130> FILE REFERENCE: S&B-0008  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/577,742  
 C--> 13 <141> CURRENT FILING DATE: 2006-04-27  
 13 <150> PRIOR APPLICATION NUMBER: PCT/CA2004/001891  
 14 <151> PRIOR FILING DATE: 2004-10-29  
 16 <150> PRIOR APPLICATION NUMBER: US 60/515,703  
 17 <151> PRIOR FILING DATE: 2003-10-31  
 19 <160> NUMBER OF SEQ ID NOS: 84  
 21 <170> SOFTWARE: PatentIn version 3.3  
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 24 <211> LENGTH: 1293  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Citrobacter rodentium  
 28 <400> SEQUENCE: 1  
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 31 caccgcagaac aagtgcctgt ctctagctca ataccgcgat cagatttacc tccaaattgc 120  
 33 gaagctggat ttgttgtgca tattccagag gatatacagc aacatgtacc ggaatgtggt 180  
 35 gaaacaacgg ctctattaag cttgataaaa gatgaaggcc tgctctcagg actagataaa 240  
 37 tatcttgctc ctcaccttga agaaggctcc cttgggaaaa aagcattgga tacgtttggt 300  
 39 ttattcaatg ttactcaaat ggcattagag ataccagtt ccggtccagg catatctggt 360  
 41 aaatatggtg ttcagatgaa cattgtaaaa ccagacatac atccaacaac cgggaactat 420  
 43 tttttacagc ttttctctct gcatgacgaa atagggttta acttcaaaga tcttctggtc 480  
 45 ccattaaaaa atgcattaac caacagcagt atatcggtca ctgcatcgac tgtagccccc 540  
 47 acaccaaacg acccaatgcc atgggttggg ttaactgctc aagtgggttcg taatcatggt 600  
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 61 acccccggat taaagccaga cactatttta tgggtggcag gcgcgacatt tggagctgct 1020  
 63 gatttaaata aagccgaatt tgataaagtg cgggttactg actaccctcg tatatggttc 1080  
 65 catgcacggg aaggagcttt attcccaaat aagcaagaca ttgcccgtgt aacaggcgca 1140  
 67 gacataaaag ctatggaaga aggcgtaccc gttggacatc aacatccaaa accggaggat 1200  
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## RAW SEQUENCE LISTING

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76 &lt;212&gt; TYPE: DNA

77 &lt;213&gt; ORGANISM: Enteropathogenic E. coli

79 &lt;400&gt; SEQUENCE: 2

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82 gcagaacaaa cgtcccctac acaaataccg caatccgaat tacctaattg atgcgaaacg      120
84 ggatttggtt ttcatatccc agaggatatg cagcgacatg caccggaatg cggtgaaaca      180
86 acagctctac tgagcttgat aaaagatgaa ggtctgctct ctgggctgga taaatatctt      240
88 gcacctcatc ttgaagaagg ctctgcagga aaaaaagcat tggatatgtt tggttttattc      300
90 aatgtctctc agatggcatt agaaataccc agcaccgttc cgggtatctc tggtaaatat      360
92 ggtgtccagc taaacattgt aaaaccagat attcatccta catcaggtaa ttatTTTTTA      420
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100 ttaacagctc aagtatgttcg taatcatggg gtggaacttc ctatagtcaa aactgaaaat      660
102 ggatggaagc ttgttgagga aactcctctt actcctgatg gcccacaagc aaattatact      720
104 gaagagtggg tgatcagacc gggagaagca gattttaaat atgggtgcac tccactacag      780
106 gcaactctag ggctggagtt tggcgccacat ttcaagtggg atttagataa ccctaatact      840
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116 agattcactg actatcctcg tatatgggtg catgcaagag aaggtgccat tttcccaaat      1140
118 aaagcagata ttgaacatgc cacaggggct gatatacgcg caatggaaga aggtgtatct      1200
120 gttggacaac ggcattccaaa tccagaggat gtgggtcatc atatcgaaag caataactca      1260
122 ccacatcata acccatcaaa ttatgttgat accgttgata taatccaaga aacaagagtc      1320
124 taa
1323

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127 &lt;210&gt; SEQ ID NO: 3

128 &lt;211&gt; LENGTH: 1326

129 &lt;212&gt; TYPE: DNA

130 &lt;213&gt; ORGANISM: Enterohemorrhagic E. coli

132 &lt;400&gt; SEQUENCE: 3

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133 atgaacattc aaccgaccat acaatctgga atcacctcac aaaacaatca acatcatcaa      60
135 acagaacaaa taccctctac acaaataccg caatccgaat tacctctagg atgccaaagt      120
137 ggatttggtt ttaatatctc agatgatata cagcaacatg caccggaatg cggtgaaaca      180
139 acagctctac tgagcttgat aaaagataaa ggtctgctct cagggctaga cgaatatata      240
141 gctcctcacc ttgaagaagg atccatagga aaaaaaacat tggatatgtt tggttttattc      300
143 aatgttacct aaatggcatt agagatacct agttccgttt caggcatctc tggtaaatat      360
145 ggtgtccagc taaacattgt aaaaccagat attcatccta catcaggtaa ttatTTTTTA      420
147 cagatattcc ctctgcatag tgaaataggt tttaatTTTA aagaccttcc tggcccgtta      480
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153 ggattaacag ctcaagtggg tcgtaatcat ggtgtagaac ttcctatagt caaaactgaa      660
155 aatggatgga agcttggttg agaaacacca ctactcctg atgggccgaa agcaaattac      720
157 acggaggagt gggttatcag accgggagaa gcagattTTTA aatatggtgc atctccatta      780
159 caggcaactc tagggctgga gtttggcgca catttcaagt gggatttaga taaccctaatt      840
161 actaaatagc ccgttcttac caatgctgcc gcaaatgcgc ttggtgcttt agggggattt      900
163 gcagtatcca gatttgcata tacagatcca atgttaagtc ctcatatcgg tgcaatgggt      960
165 gggcaagcag cagggcatgc catacagtat aataccctcg gattaaagcc agacactatt      1020

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167 ttatggtggg ctggtgcgac actgggggct gccgatttaa acaaggccga gtttgaagta 1080
169 gctagattca ctgactatcc tcgtatatgg tggcacgcaa gagaaggagc tattttcccc 1140
171 aataaagcag atattgaaca tgccacaggt gctgatatac gcgcaatgga agaaggatc 1200
173 cctgttggac agcggcatcc aaatccagag gatgtggtaa tcgatatcga aagcaatggc 1260
175 ttaccacatc ataatccatc aaatcatgtt gatatctttg atataatcca agaaacaaga 1320
177 gtctaa 1326
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183 <213> ORGANISM: Citrobacter rodentium
185 <400> SEQUENCE: 4
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190 tgagcgcgta ataggagtag tggtagacgg agactttact tatgagcaaa gaaaagaatt 180
192 tctcagtcct gaagatgaac atcaaaatat aaagataata tatcgggaaa atgttgattt 240
194 cagtatgtat gataaaaaac tgtctgatat ttatcttgaa aatattcatg aacaagaatc 300
196 atatccagcg agtgagagag ataattatct gttaggctta ttaagagaag agttaaaaaa 360
198 tattccatac ggaaaggact ctttgattga atcatatgca gaaaaaagag gtcatacttg 420
200 gtttgatttt tttagaaact tggcgggtatt gaagggggggg gggttgttta cagagacggg 480
202 taaaactgga tgccataaca tatctccatg tgggggatgt atatatcttg atgcagatat 540
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206 ttgtaatgat gaga 614
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219 cggagacttt acttatgagc aaagaaaaga atttctcagt ctggaagatg aacatcaaaa 180
221 tataaagata atatatcggg aaaatggtga tttcagtagt tatgataaaa aactgtctga 240
223 tattttatctt gaaaatatct atgaacaaga atcatatcca gcgagtgaga gagataatta 300
225 tctgttggtt ttaagagaag agttaaaaaa tattccatac ggaaaggact ctttgattga 360
227 atcatatgca gaaaaaagag gtcatacttg gtttgatttt tttagaaact tggcgggtatt 420
229 gaaggggggg gggttgttta cagagacggg taaaactgga tgccataaca tatctccatg 480
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244 agtacacttc tccagaaagt ttcttttgct ggaaaagaat attctctgga acctattgat 120
246 gaaagaaccc ctattctttt tcagtggttt gaagcaaggc cagagcgata cgaaaaagga 180
248 gaagtaccaa tattgaatac caaagaacat ccgtatttga gcaatattat aaatgctgca 240
250 aaaatgaaa atgagcgtat aatcgggtgt ctggtagatg gaaattttac ttatgaacaa 300
252 aaaaaggaat ttctcaatct tgaaaatgaa catcaaaaata taaaataat ctaccgagca 360
254 gatgtggatt tcagcatgta tgataaaaaa ctatctgata tttaccttga aaatatccat 420

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260 gaacatactt ggtttgattt ttccaggaat ttggccatat tgaaggctgg aagtttgttt 600
262 acagagacgg gaaaaactgg atgccataac atatcgccct gtagcggatg tatatatctt 660
264 gatgccgaca tgattattac cgataaatta ggagtcctgt atgctcctga tggatcgcct 720
266 gtgcatgtag attgtaatga tgagataaaa agtcttgaaa atggtgcgat agttgtcaat 780
268 cgtagtaatc atccagcatt acttgcaggc ctcgatatta tgaagagtaa agttgacgct 840
270 catccatatt atgatggtct aggaaagggg atcaagcggc attttaacta ttcacgttta 900
272 cacaattata atgctttttg tgattttatt gaatttaagc atgaaaatat tataccgaat 960
274 accagtatgt ataccagcag ttcatggtaa 990

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289 gaagtaccaa tattgaatac caaagaacat ccgtatttga gcaatattat aaatgctgca 240
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328 cgaataccac ttccgcgga agatttaggc aacctatatg aaaatgtcat tcgcgccgtt 180
330 cgtgacagcc gtagcaagct catagatcag catagcgtcg atatgattgg taacactata 240
332 cttgatgctt tgagccgatc acaaaccttt cgtgatgccg taagctatgg cattcataat 300
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352 gtgtctaaca tagaatatgg atttatccag caacatgatt ttcccgggtt ggctatcgac      900
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369 cgaataccac tttccgcagc agatttaagc aacgtatacg aaagtgtaat acgcgccgctc      180
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/577,742

DATE: 08/31/2006  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:35; Xaa Pos. 208

Seq#:59; Xaa Pos. 9

Seq#:66; N Pos. 439

Seq#:78; Xaa Pos. 147

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/577,742

DATE: 08/31/2006

TIME: 08:27:59

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:192  
L:2704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0  
L:2916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:420  
L:3423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:144